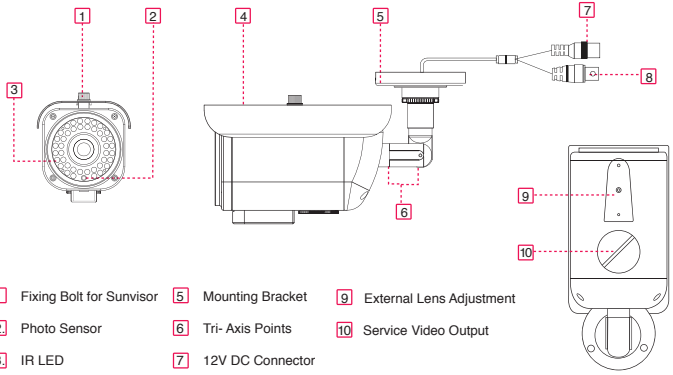
Concept Pro

AIR30 Range

Weatherproof Colour/Mono IR Camera

USER MANUAL

The Concept Pro AIR30 is a weatherproof IR camera, suitable for monitoring areas in hostile conditions and in low light.



1. Fixing Bolt for Sunvisor
2. Photo Sensor
3. IR LED
4. Sunvisor
5. Mounting Bracket
6. Tri- Axis Points
7. 12V DC Connector
8. Video Out Connector
9. External Lens Adjustment
10. Service Video Output

PACKING CONTENTS

SCREW
X3

PLASTIC-WALL PLUG
X3

ALLEN KEY
X2

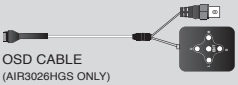
LENS ADJUSTMENT COVER SCREW
X1

LENS ADJUSTMENT TOOL
X1

USER MANUAL
X1

MOUNTING DRAWING PAPER
X1

SERVICE VIDEO OUT CABLE (AIR3026A Only)
X1



OSD CABLE
(AIR3026HGS ONLY)
X1

CAUTION

1. This installation should be made by a qualified service person and should abide to all local codes.
2. In order to prevent electronic shock and/or destroy waterproof seals, do not loosen any screws on the camera body.
3. Adjust the sunshield cover to avoid exposure of direct sunlight on the lens.
4. Do not touch the front glass directly. If necessary, use a soft cloth moistened with alcohol to wipe off dust or debris.
5. Avoid installation on a surface subjected to frequent vibration or shocks.
6. Do not operate the camera beyond its temperature range or power source ratings.
7. Should any damage or suspected damage occur, shutdown the power source, unplug and contact your service provider.
8. Do not install the camera under unstable lighting conditions. Severe lighting change or flicker can cause the camera to work improperly.
9. Never use the camera close to a gas or oil leak.
10. Do not disassemble the camera.
11. Do not drop the camera or subject the unit to physical shocks.Never keep the camera face to strong light directly, this can damage the CCD.
12. Ensure all removable covers are replaced to protect the inner components.
13. Do not install near devices which emit a strong electro-magnetic field.
14. Use a dry or damp cloth only for cleaning.

PLEASE FOLLOW THE ABOVE CAUTIONS – FAILURE TO DO SO MAY INVALIDATE THE WARRANTY OR CAUSE SERIOUS INJURY.

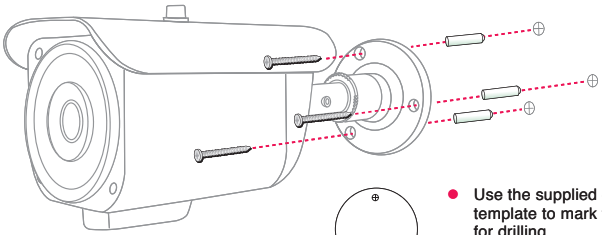
Remark: Changes or modifications not expressly approved by the manufacturer can cause the camera to be damaged and become inoperable. This may invalidate the user warranty.

Important: Ensure all cautionary procedures are observed during installation.

It is recommended the camera is tested during the most demanding environmental conditions such as low light or bright sunlight to ensure continuity of effective CCTV monitoring. You may find the use of an ND filter helpful.

Remove the camera unit carefully from the box, reserving the accessory contents in a safe place.

FIXING TO A WALL

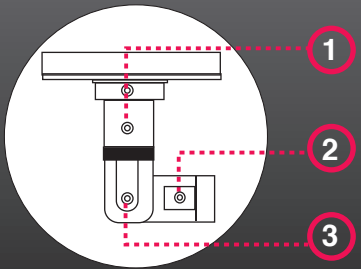


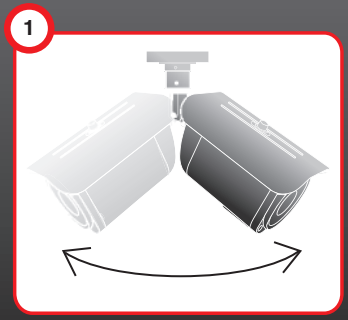
DRAWING TEMPLATE

- Use the supplied drill mounting template to mark the spacing for drilling.
- Following drilling, securely attach the bracket and camera to the wall.

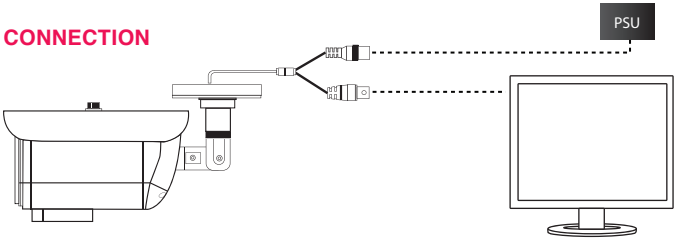
POSITIONING

Point the Camera towards the





CONNECTION



- Connect the video out port to your video cable running to the monitoring recorder.
- Check the power supply is of the correct level and connect your power supply into the power port on the Camera.
- View the picture on a monitoring device to check the power and video connection is working properly.

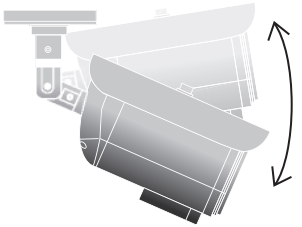
Troubleshooting

- Ensure all power and cable connections are correct with the Camera, DVR and Test monitor or Telemetry devices if used.
- Power Voltage Check - Remove the OSD cover to see if the green correct power LED is lit. If the red LED is lit the power voltage is too high. If the yellow LED is lit the power voltage is not high enough. If there are no LEDs lit there is no power getting to the camera
- If all power and cable connections are correct and the camera picture can not be produced or configured then contact your supplier for technical support.

intended area to be monitored.

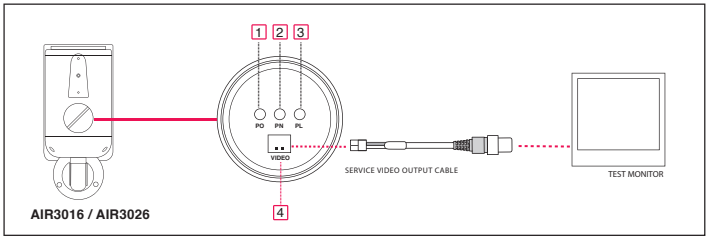
2

3



SERVICE VIDEO OUTPUT (AIR3016 / 3026 MODELS ONLY)

The Service Video Out panel contains a power indicator and test monitor connection for ease of adjusting the camera settings during installation.

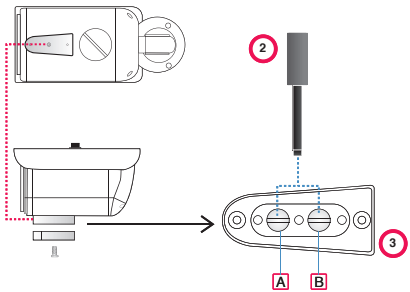


The power indicator LEDs display the power supply being fed into the camera and whether it is too high, low or correct.

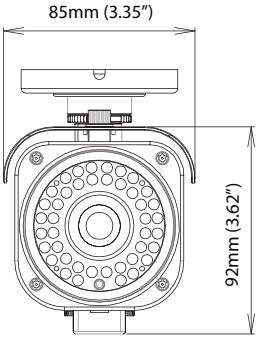
1. "PO": Red LED - Voltage is too high
2. "PN": Green LED - Voltage is correct
3. "PL": Yellow LED - Voltage is too low
4. Extra video out for testing monitor - Attach your Video test monitor with the service video cable enclosed in your camera box. The camera footage will appear on your test monitor and zoom/focus adjustments can be carried out as the installation requires.

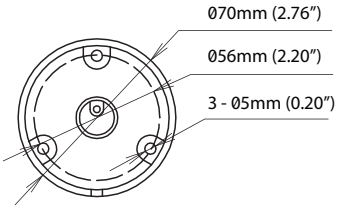
SEE OVERLEAF FOR AIR3026HGE ON SCREEN DISPLAY

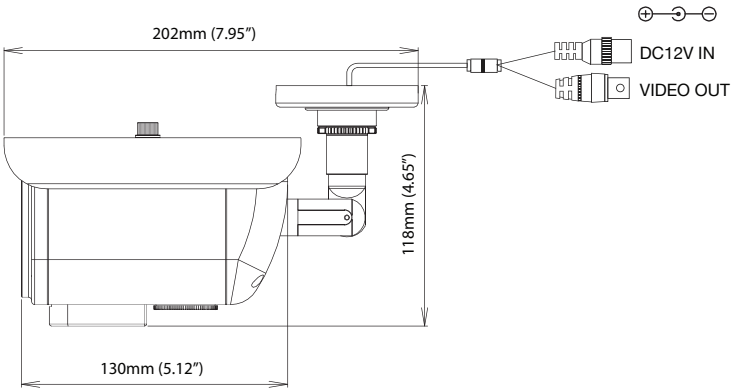
EXTERNAL LENS ADJUSTMENT



1. Open the lens adjuster cover and adjust focus and zoom. Loose the screw on the lens adjuster cover.
2. Lens Adjustment Tool
3. Focus and Zoom Adjustments
   - A **Zoom**
     Turn clockwise to zoom wide
     anti-clockwise to zoom narrow
   - B **Focus**
     Turn clockwise to focus far
     Anti-clockwise to focus near


85mm (3.35")
92mm (3.62")


Ø70mm (2.76")
Ø56mm (2.20")
3 - Ø5mm (0.20")


202mm (7.95")
DC12V IN
VIDEO OUT
118mm (4.65")
130mm (5.12")

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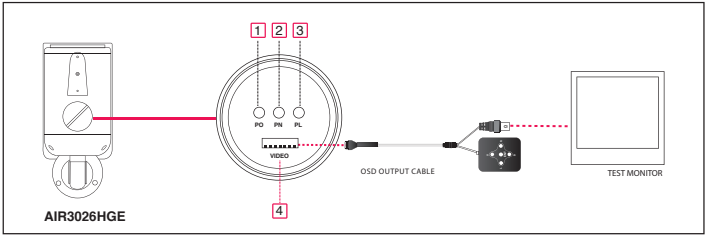

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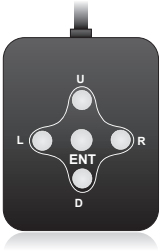
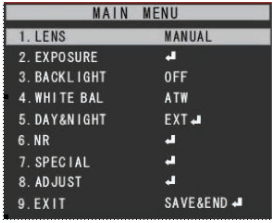
3. "PL": Yellow LED - Voltage is too low
4. Extra video out and OSD control connector - Attach your Video test monitor with the service video cable enclosed in your camera box. The camera footage will appear on your test monitor and zoom/focus adjustments can be carried out as the installation requires.



OSD Controller

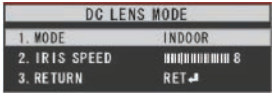
1) Press “U” to navigate upwards
2) Press “D” to navigate downwards
3) Press “L” to navigate left
4) Press “R” to navigate right
5) Press “ENT” to open menu/sub-menu

MAIN MENU



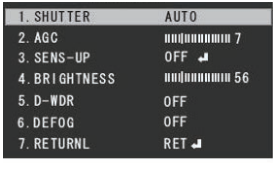
1	LENS	MANUAL / DC#
2	EXPOSURE	#
3	BACKLIGHT	OFF/BLC#/HSBLC#
4	WHITE BALANCE	ATW/AWB/AWC-SET/INDOOR
		/OUTDOOR/MANUAL#
5	DAY&NIGHT	AUTO#/COLOR/B/W#EXT#
6	NR	#
7	SPECIAL	#
8	ADJUST	#
9	EXIT	SAVE&END/#RESET#/NOT SAVE#

LENS



1	MODE	INDOOR/OUTDOOR#
2	IRIS	0-15
3	RETURN	RET#

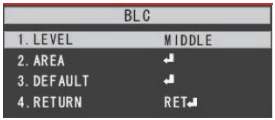
EXPOSURE



1	SHUTTER	AUTO/ 1/25 / 1/50 / FLK / 1/200 /
		1/400 / 1/1000 / 1/2000 / 1/5000 /
		1/10000 / 1/50000 / X2 / X4 / X6 /
		X8 / X10 / X15 / X20 / X25 / X30
2	AGC	0-15
3	SENS-UP	OFF/AUTO#
4	BRIGHTNESS	1-100
5	D-WDR	OFF/AUTO/#
6	DEFOF	OFF/AUTO
7	RETURN	RET#

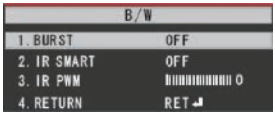
1	POS/SIZE	POSITION/SIZE/RET AGAIN
2	GRADUATION	0-2
3	DEFAULT	#
4	RETURN	RET#

BACKLIGHT

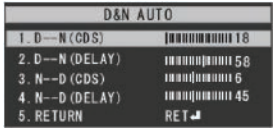


1	LEVEL	MIDDLE/LOW/HIGH
2	AREA	POSITION/SIZE/RET AGAIN
3	DEFAULT	#
4	RETURN	RET#

DAY&NIGHT

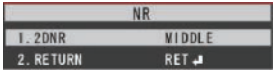


1	BURST	OFF/ON
2	IR SMART	OFF/ON#
3	IR PWM	OFF/0-100
4	RETURN	RET#



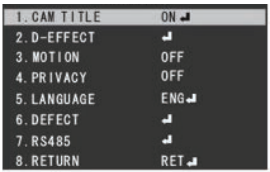
1	D--N (CDS)	6-255
2	D--N (DELAY)	0-60
3	N--D(CDS)	0-249
4	N--D(DELAY)	0-60
5	RETURN	RET#

NR

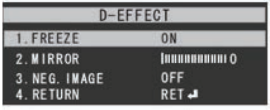


1	2DNR	HIGH/MIDDLE/LOW/OFF
2	RETURN	RET#

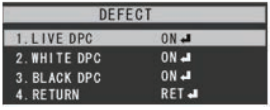
SPECIAL



1	CAM TITLE	OFF/ON#
2	D-EFFECT	FREEZE/MIRRORING/
		NEG.IMAGE/RETURN
3	MOTION	OFF/ON#
4	PRIVACY	OFF/ON#
5	LANGUAGE	ENG#/CHN1#/CHN2#/GER#/
		FRA#/ITA#/SPA#/POL#/
		RUS#/POR#/NED#/TUR#
6	DEFECT	#
7	RS485	#
8	RETURN	RET#

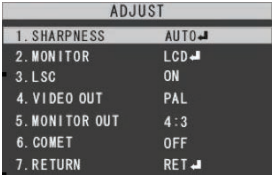


1	FREEZE	OFF/ON
2	MIRROR	OFF/MIRROR/V-FLIP/ROTATE
3	NEG.IMAGE	OFF/ON
4	RETURN	RET#



1	LIVE DPC	OFF/AUTO#
2	WHITE DPC	OFF/MIRROR/V-FLIP/ROTATE
3	BLACK DPC	OFF/ON
4	RETURN	RET#

ADJUST



1	SHARPNESS	OFF/AUTO#
2	MONITOR	LCD#/CRT#
3	LSC	OFF/ON
4	VIDEO OUT	NTSC/PAL
5	MONITOR OUT	4:3/16:9
6	COMET	OFF
7	RETURN	RET#

EXIT

1	EXIT	SAVE&END#/RESET#/NOTSAVE#

ITEM	AIR3026A	AIR3026HGS
Type	Colour/Monochrome (Removable IR Cut Filter)	
Signal System	PAL	
Pick Up Device	1/4" Super DIS	1/3" Super DIS
Picture Elements	720H×570V	1280H×1024V
Resolution	700TVL	1000TVL
Minimum Illumination	0Lux (42Pieces IR LED ON)	
Vertical Frequency	50Hz	
Horizontal Frequency	15.625KHz	
Clock Frequency	6MHz	
Scanning System	2:1 Interlace	Progressive
S/N Ratio	≥46dB	≥52dB
Electronic Shutter	1/25-1/50,000s	
Lens	3.5-8mm Varifocal IR Lens	
White Balance	ATW	
Back Light	OFF	
Auto Gain Control	ON	
Gamma	0.45	
Video Output	1V p-p,75Ω	
Power Supply	DC12V ±10%	
Current Consumption	650mA (Max)	530mA (Max)
IR Effect Distance	25~30m (Outdoor)	25~30m (Outdoor)
Dimension	202×85×118mm (7.95"×3.35"×4.65")	
Weight	1050g	
Storage Temperature	-30°+60° (-22°+140°)	
Operating Temperature	-30°+40° (-22°+104°)	

Design and specification are subject to change without notice.

AIR15 Range

18 IR LEDs
700TVL
3.6mm / 6mm Fixed Lens Options
182 x 70 x 81mm (WxHxD)

AIR45 / 50 Range

60 IR LEDs
Varifocal Lens Options
Service Video Output Option
On Screen Display Option
External Lens / Zoom Adjustments
340 x 219 x 100mm (WxHxD)

Extend the IR range up to 80m with AIR-IR.

AIR-IR

It is possible to extend the IR range of the AIR 45/50 range with an easy to attach bolt-on twin IR lamp. The AIR-IR twin lamp allows the camera unit to view up to 80m.

Concept Pro